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Thermometrical Observations,

MADE AT FORT WASHINGTON,

Commencing June 1790, and ending April 1791.

BY DANIEL BRITT AND G. TURNER.

TO WHICH ARE ADDED, FOR SOME TIME,

The Rise and Fall of the Ohio.

Communicated by G. TURNER.

Read July 14th 1797, at a Special Meeting.

N°. XL.

*Thermometrical Observations made at Fort Washington, on the Ohio. N. Lat.
39°. 3'. 5". By DANIEL BRITT.*

| At 3. P. M. | | | JUNE, 1790. |
|-------------|---------------------|-----------|--|
| Days. | Deg. Fah. Therm. | Winds. | |
| 1 | 78 | S. W. | Clear. |
| 2 | 76 | S. | Clear A. M. Cloudy P. M. |
| 3 | 79 | S. W. | Clear. Sultry P. M. |
| 4 | 84 | S. | Clear. Strong wind. <i>Greatest heat.</i> |
| 5 | 81 | S. W. | Clear A. M. Cloudy P. M. Rain at night. |
| 6 | 72 | S. E. | Cloudy. |
| 7 | 73 | N. E. | <i>Flying clouds.</i> |
| 8 | 71 | S. W. | Ditto. |
| 9 | 72 | Easterly | Clear A. M. Cloudy P. M. Rain at night. |
| 10 | 68 | Ditto. | Cloudy. <i>The mercury lowest now and on the 30th.</i> |
| 11 | 73 | E. | Rain with intermissions. |
| 12 | 75 | S. W. | Cloudy A. M. Rain P. M. |
| 13 | 71 | S. | Clear A. M. Flying clouds P. M. |
| 14 | 76 | S. E. | Clear. |
| 15 | 81 | | Clear. Rain at night. |
| 16 | 82 | S. W. | <i>Flying clouds. Showery.</i> |
| 17 | 80 | Southerly | Clouds, with showers. |
| 18 | 82 | S. W. | <i>Flying clouds.</i> |
| 19 | 70 | W. | Clear. |
| 20 | 72 | W. | Clear. |
| 21 | 72 | S. E. | Clear. Rain. |
| 22 | 79 | S. | Clear. |
| 23 | 70 | E. | Cloudy. Rain. |
| 24 | 69 | E. | Heavy Rain A. M. Rain P. M. |
| 25 | 76 | | Clear. |
| 26 | 78 | S. W. | Clear. |
| 27 | 82 | S. E. | Clear. |
| 28 | 78 | E. | Clear. |
| 29 | 71 | S. W. | Overcast. |
| 30 | 68 | S. W. | Cloudy. Clear. <i>Mercury lowest now and the 10th.</i> |

| Ex-tremes | Mean Tem. | Enum. of winds | SUMMARY. |
|-----------|--------------|---|--|
| 84° { | ° / 68 } | S. W. S. S. E. E. W. Easterly Southerly N. E. Omitted | Ten times—Prevailing winds, S. W. Four do. Four do. Four do. Two do. Wholly clear 13 days. Two do. Partly do. 6 do. |
| | | | JULY. |

JULY, 1790.

| Days. | P. M. | | REMARKS. |
|-------|-----------|--------|--|
| | Deg. Fah. | Therm. | |
| 1 | 74 | | N. W. Clear. |
| 2 | 75 | | N. W. Clear. |
| 3 | 79 | | W. Clear. |
| 4 | 80 | | W. Clear. |
| 5 | 79 | S. E. | Overcast. |
| 6 | 80 | S. E. | Rain. Clear. Cloudy. |
| 7 | 72 | W. | Rain. Overcast. Clear. |
| 8 | 69 | W. | Overcast. <i>The mercury lowest.</i> |
| 9 | 71 | E. | Clear. Overcast. |
| 10 | 72 | S. E. | Overcast. |
| 11 | 76 | S. | Cloudy. |
| 12 | 85 | W. | Clear. |
| 13 | 85 | S. E. | Clear. |
| 14 | 76 | W. | Rain. Cloudy. |
| 15 | 78 | S. | Cloudy. A gentle shower. |
| 16 | 80 | S. E. | Clear. |
| 17 | 84 | S. | Clear. |
| 18 | 86 | S. E. | Clear. |
| 19 | 88 | S. W. | Clear. <i>Greatest heat this year.</i> |
| 20 | 84 | S. | Clear. Rain. Cloudy. |
| 21 | 82 | S. W. | Clear. |
| 22 | 84 | S. W. | Clear. |
| 23 | 84 | S. W. | Clear. |
| 24 | 86 | S. W. | Clear. |
| 25 | 78 | N. | Clear. |
| 26 | 80 | N. E. | Clear. |
| 27 | 80 | S. E. | Cloudy. Clear. |
| 28 | 78 | S. E. | Clear. |
| 29 | 79 | S. E. | Clear. |
| 30 | 81 | S. | Clear. |
| 31 | 81 | S. E. | Clear. |

| Ex-tremes. | Mean Tem. | Enum. of winds. | SUMMARY. |
|------------|-----------|--|--|
| 88 } | ° 79 17 | S. E. W. S. W. S. N. W. N. N. E. E. | Ten times—Prevailing wind. 6—do. 5—do. 5—do. 2—do. Wholly clear—20 days. 1—do. Partly do. — 5 do. 1—do. 1—do. |

AUGUST, 1790.

| 3. P. M. | | | REMARKS. |
|----------|---------------------|--------|---|
| Days. | Deg. Fah. Therm. | Winds. | |
| 1 | 75° | N. | Clear. |
| 2 | 78 | N. E. | Clear. |
| 3 | 79 | N. E. | Clear. |
| 4 | 86 | S. W. | Clear. <i>Greatest heat this month.</i> |
| 5 | 84 | S. W. | Clear. Flying clouds. |
| 6 | 80 | S. | Cloudy. Rain at night. |
| 7 | 80 | S. | Cloudy. Rain. |
| 8 | 79 | S. E. | Rain. Cloudy. Rain. |
| 9 | 80 | W. | Clear. |
| 10 | 80 | W. | Clear. |
| 11 | 83 | S. E. | Clear. |
| 12 | 83 | S. | Clear. |
| 13 | 84 | S. E. | Clear. |
| 14 | 84 | S. E. | Clear. |
| 15 | 83 | S. E. | Clear. Flying clouds. |
| 16 | 82 | S. E. | Clear. |
| 17 | 80 | S. W. | Cloudy. Showers. |
| 18 | 74 | W. | Rain. Cloudy. <i>Mercury lowest.</i> |
| 19 | 77 | W. | Clear. |
| 20 | 75 | S. E. | Cloudy. |
| 21 | 77 | S. | Cloudy. Clear, &c. |
| 22 | 80 | N. E. | Clear. |
| 23 | 80 | E. | Clear. |
| 24 | 81 | E. | Clear. |
| 25 | 83 | E. | Clear. |
| 26 | 83 | E. | Clear. |
| 27 | 80 | S. W. | Rain. Cloudy. |
| 28 | 76 | S. | Overcast. |
| 29 | 78 | S. W. | Rain. Cloudy. |
| 30 | 80 | S. | Overcast. |
| 31 | 85 | S. E. | Clear. |

| Ex-tremes. | Mean Tem. | Enum. of winds. | SUMMARY. |
|------------|--------------|--------------------|------------------------------|
| 86° | 80. 9° | S. E. | 8 times—Prevailing wind. |
| 74° | | S. | 6—do. |
| | | S. W. | 5—do. |
| | | W. | 4—do. |
| | | E. | 4—do. Wholly clear— 20 days. |
| | | N. E. | 3—do. |
| | | N. | 1—do. Partly do. — 1 do. |

SEPTEMBER.

THERMOMETRICAL OBSERVATIONS. 333

SEPTEMBER, 1790.

| Days. | 3. Deg. Fah. Therm. | P. M. | | REMARKS. |
|-------|---------------------------|-------------------------------|----|---|
| | | Winds. | | |
| 1 | 86° | S. | E. | Clear. Rain at night. <i>Greatest heat.</i> |
| 2 | 78 | W. | | Clear. |
| 3 | 78 | W. | | Clear. |
| 4 | 76 | W. | | Clear. |
| 5 | 75 | W. | | Clear. |
| 6 | 74 | W. | | Clear. |
| 7 | 81 | S. W. | | Clear. |
| 8 | 83 | S. W. | | Clear. |
| 9 | 81 | W. | | Clear. |
| 10 | 84 | S. W. | | Clear. |
| 11 | 82 | S. W. | | Clear. |
| 12 | 82 | S. W. | | Clear. |
| 13 | 82 | S. W. | | Clear. |
| 14 | 66 | N. E. | | Rain. |
| 15 | 66 | N. | | Clear. |
| 16 | 67 | N. | | Clear. |
| 17 | 68 | N. | | Clear. |
| 18 | 64 | N. | | Clear. |
| 19 | 65 | N. | | Clear. |
| 20 | 65 | N. E. | | Clear. |
| 21 | 66 | N. E. | | Cloudy. |
| 22 | 65 | N. E. | | Rain. Cloudy. Rain. |
| 23 | 65 | N. | | Clear. |
| 24 | 66 | W. | | Clear. |
| 25 | 66 | W. | | Clear. |
| 26 | | | | |
| 27 | | | | |
| 28 | | | | Overcast—An almost incessant cold drizzling rain. |
| 29 | | | | Do. do. |
| 30 | 59 | Observa- tions omitted. | | Overcast—Small rain. <i>Mercury lowest.</i> |

| Ex- tremes. | Mean Tem. | Enum. of winds. | SUMMARY. |
|----------------|--------------|--------------------|--------------------------|
| 86° | 72° | W. | 8 times—Prevailing wind. |
| 59 | 18 | S. W. | 6—do. |
| | | N. | 6—do. |
| | | N. E. | 4—do |
| | | S. E. | 1—do. |
| | | N.E. & E. | 1—do. |
| | | | Wholly clear—22 days. |
| | | | Partly do. — o do. |

OCTOBER.

Thermometrical Observations made at Fort Washington, on the Ohio, N. Lat. 39°. 3'. 5". By JUDGE TURNER. Therm. situated in the North shade.

OCTOBER, 1790.

| 3. P. M. | | | REMARKS. |
|----------|---------------------|---------------|--|
| Days. | Deg. Fah. Therm. | Winds. | |
| 1 | 65 | Calm. | Serene. |
| 2 | 65 | Calm. | Serene. |
| 3 | 70 | S. W. | Cloudy. Alternate sunshine. Rain and some thun- |
| 4 | 70 | S. W. | Cloudy and windy. Rain last night. <i>Greatest heat to</i> |
| 5 | 69 $\frac{1}{2}$ | S. S. W. | <i>Clear. [day and yesterday.]</i> |
| 6 | 62 $\frac{1}{2}$ | N. N. E. | Overcast A. M. Clouds and funshine P. M. |
| 7 | 60 | S. & S W. | Clear. Slight frost last night, the first. |
| 8 | 58 | E. N. E. | Overcast. Showery A. M. Steady rain P. M. & night. |
| 9 | 50 | E. N. E. | Overcast & rainy. Some rain at night. <i>Mercury lowest.</i> |
| 10 | 54 $\frac{1}{2}$ | N. E. | Overcast. Clear forenoon and P. M. |
| 11 | 58 | E. N. E. | Clear. |
| 12 | 59 | E. | Overcast. Steady rain evening and night. |
| 13 | 60 | S. S. E. | Rainy. Showery all night. |
| 14 | 54 $\frac{1}{2}$ | N. E. | Showery. |
| 15 | 54 | N. N. W. & W. | W. S. W. Showery. Fair and windy evening. |
| 16 | 59 $\frac{1}{2}$ | W. | Clear. |
| 17 | 59 $\frac{1}{2}$ | W. | Clear. |
| 18 | 57 $\frac{1}{2}$ | W. | Clear. |
| 19 | 52 | N. W. | Overcast. Some funshine P. M. |
| 20 | 51 | N. N. W. | Overcast. |
| 21 | 53 | S. S. W. | Clear. Smart frost last night. |
| 22 | 53 | S. S. W. | Clear. do. do. |
| 23 | 57 | S. | Clear. |
| 24 | 56 | S. | Clear. Overcast at noon. Clear evening. |
| 25 | 53 | W. | Rainy—Windy P. M. |
| 26 | 50 | W. | Overcast A. M. Clear P. M. <i>Mercury lowest.</i> |
| 27 | 54 | S. W. | Clear. |
| 28 | 60 | W. | Clear and windy. Evening cloudy. |
| 29 | 63 $\frac{1}{2}$ | S. S. E. | Gentle rain. |
| 30 | 67 | S. | Overcast A. M. Clear P. M. |

SUMMARY.

SUMMARY.

| Ex-tremes. | Mean Tem. | Enumera. of winds. | |
|---------------|--------------|--|---|
| 70° } 50 } | 58 14. | W. W. S. W. S. W. S. S. W. S. S. S. E. N. N. W. } W. S. W. } N. W. N. N. W. N. E. N. N. E. E. E. N. E. Calm. | 6 times—Prevailing wind. 1—do. 3—do. 3—do. 3—do. 2—do. 1—do. 1—do. 1—do. 2—do. 1—do. 1—do. 3—do. 2—do. |
| | | | Wholly clear—12 days. Partly do. — 8 do. |

NOVEMBER.

336 THERMOMETRICAL OBSERVATIONS.

NOVEMBER, 1790.

| At Days. | 3. Deg. Fah. Therm. | P. M. Winds. | REMARKS. |
|-------------|---------------------------|-----------------|--|
| 1 | 62° | Calm. | Cloudy. |
| 2 | 64 $\frac{1}{2}$ | Calm. | Generally serene. |
| 3 | 59 | E. S. E. | Clear A. M. Overcast P. M. Shower towards night. |
| 4 | 50 | W. S. W. | Windy. Overcast. Rainy. |
| 5 | 43 $\frac{1}{2}$ | W. N. W. | Cloudy. Some frost and rain last night. |
| 6 | 53 | W. | Cloudy. White frost last night. |
| 7 | 59 | S. S. W. | Clear. |
| 8 | 63 | W. | Clear. |
| 9 | 57 $\frac{1}{2}$ | S. | Clear. |
| 10 | 53 $\frac{1}{2}$ | W. N. W. | Cloudy. |
| 11 | 50 $\frac{1}{2}$ | W. N. W. | Cloudy. Some rain at night. |
| 12 | 56 | S. S. E. | Overcast. |
| 13 | 59 | W. | Overcast. Slight rain. |
| 14 | 59 | W. N. W. | Overcast. |
| 15 | 64 | S. S. W. | Cloudy and gloomy with rain. Thunder A. M. |
| 16 | 54 | W. | Overcast. Rain A. M. about about $\frac{1}{2}$. P. M. the mercury stood at 64°. At 3. it fell 10°. as noted, and arose at 4. to 60°. |
| 17 | 49 | N. N. W. | Clear. |
| 18 | 49 | Omitted. | Clear, generally. Some ice formed, and snow (the first this season) fell this morning. |
| 19 | 57 $\frac{1}{2}$ | W. | Clear and pleasant. A small hoar frost A. M. with ice 2 lines thick. |
| 20 | 59 $\frac{1}{2}$ | W. | Clear and pleasant. |
| 21 | 68 | W. | Clear and remarkably pleasant. <i>Mercury highest.</i> |
| 22 | 58 | W. | Cloudy A. M. Rain P. M. |
| 23 | 47 | N. E. | Cloudy. Moist atmosphere. |
| 24 | 46 $\frac{1}{2}$ | N. | Cloudy. A little snow at night. |
| 25 | 45 | N. | Cloudy. Snow towards evening. |
| 26 | 36 $\frac{1}{2}$ | N. N. W. | Snow and sleet all day. <i>Mercury lowest.</i> |
| 27 | 52 $\frac{1}{2}$ | W. | Clear. |
| 28 | 41 | W. N. W. | Clear A. M. Overcast P. M. |
| 29 | 42 | W. S. W. | Clear. |
| 30 | 48 $\frac{1}{2}$ | E. S. E. & E. | Overcast till 10. A. M. Clear afterwards. |

SUMMARY.

SUMMARY.

| Ex-tremes. | Mean Tem. | Enumeration of winds. | |
|------------|--------------|--|---|
| 68° 36½ | 53° 19' | W. W. N. W. W. S. W. N. N. W. N. N. E. S. S. S. W. S. S. E. E. S. E. E. S. E. to E. omit. & calm. | 9-times [Prevailing wind.] 5—do. 2—do. 2—do. 2—do. 1—do. 1—do. 2—do. 1—do. 1—do. 1—do. 3—do. |

DECEMBER.

Y y

338 THERMOMETRICAL OBSERVATIONS.

DECEMBER, 1790.

| Days. | 3. Deg. Fah. Therm. | P. M. Winds. | REMARKS. |
|-------|---------------------------|---------------------------|--|
| 1 | 48 $\frac{1}{2}$ ° | N. | Clear A. M. Overcast P. M. |
| 2 | 48 | N. | Heavy rains A. M. and last night. Rain and sleet P. M. |
| 3 | 44 $\frac{1}{2}$ | W. N. W. | Some snow A. M. Fair, with a few clouds, P.M. |
| 4 | 44 | N. N. W. | Cloudy A. M. Fair but a little cloudy P. M. |
| 5 | 49 $\frac{1}{4}$ | N. N. W. $\frac{1}{2}$ N. | Clear and pleasant. |
| 6 | 50 | S. S. W. $\frac{1}{2}$ S. | Clear and pleasant. Sharp frost last night. <i>Mercury highest.</i> |
| 7 | 55 | N. E. | Clear and pleasant. <i>Mercury highest.</i> |
| 8 | 41 | N. | Clear and pleasant. Smart frost. |
| 9 | 46 | N. N. W. | Clear A. M. Overcast P. M. |
| 10 | 46 | S. | Rainy morning—Next overcast and a moist at- mosphere. Drizzling rain all P. M. |
| 11 | 37 $\frac{1}{2}$ | N. W. | Snow and sleet all day. At night heavy rains. The air very moist, yet not cold, tho' mer- cury down at 37 $\frac{1}{2}$ °. |
| 12 | 44 | W. N. W. | Overcast generally. Air moist. Some snow last night. |
| 13 | 48 | N. N. W. | Cloudy—raw and disagreeable. |
| 14 | 32 | N. N. W. | Clear and pleasant A. M. Cloudy, and next overcast P. M. |
| 15 | 31 | N. N. W. | Clear and pleasant. Sharp frost and ice in the creeks last night. |
| 16 | 29 $\frac{1}{2}$ | N. N. W. | Overcast. Very sharp frost. |
| 17 | 26 | N. N. W. $\frac{1}{2}$ N. | Snow this morning and last night. Floating cakes of ice (for the first time) in the Ohio. Severe frost last night. |
| 18 | 29 | S. | Clear and pleasant. |
| 19 | 40 | S. W. by S. | Clear and remarkably pleasant. A fresh breeze all day. |
| 20 | 40 $\frac{1}{2}$ | W. | Cloudy. |
| 21 | 38 | W. S. W. | Clear generally. Some snow last night. |
| 22 | 36 $\frac{1}{2}$ | W. S. W. $\frac{1}{2}$ W. | Clear. |
| 23 | 42 | S. W. by W. | Clear. Increased floating ice in the Ohio; but in a dissolving state. |
| 24 | 46 | Calm. | The ice still floating. |

THERMOMETRICAL OBSERVATIONS. 339

| | | | |
|----|-----------------|---------------------------|---|
| 25 | $25\frac{1}{2}$ | N. N. W. | Windy morning. Some snow at noon and last night. Ice still floating. The Licking R. frozen up at the mouth. |
| 26 | 23 | N. N. W. to N. | Clear and pleasant. Great bodies of floating ice in Ohio. |
| 27 | $23\frac{1}{2}$ | W. S. W. | Clear A. M. Overcast P. M. Much ice in the Ohio. |
| 28 | 36 | S. S. E. $\frac{1}{2}$ E. | Clear A. M. Cloudy and windy P. M. and all night. Some snow and hail in the afternoon. |
| 29 | 34 | S. E. to N. | Clear A. M. A few flakes of snow P. M. Ohio ice much diminished. |
| 30 | 25 | N. N. W. | Clear. |
| 31 | 20 | W. N. W. | Clear, serene and remarkably pleasant. <i>The coldest day this year.</i> |

SUMMARY.

| Ex-tremes. | Mean Tem. | Enumeration of winds. | |
|-----------------------|-----------------|--|--|
| $55\frac{1}{2}$ 20 | $38\frac{1}{2}$ | N. N. W. N. W. N. W. N. N. W. $\frac{1}{2}$ N. S. N. N. W. to N. N. W. N. E. W. W. S. W. W. S. W. $\frac{1}{2}$ W. S. E. to N. S. W. by W. S. W. by S. S. S. E. $\frac{1}{2}$ E. S. S. W. $\frac{1}{2}$ S. Calm. | 8—times [Prevailing wind.] 3—do. 3—do. 2—do. 2—do. 1—do. 1—do. 1—do. 1—do. 1—do. 1—do. 1—do. 1—do. 1—do. 1—do. 1—do. 1—do. 1—do. 1—do. 1—do. 1—do. |

Y y 2

JANUARY.

340 THERMOMETRICAL OBSERVATIONS.

JANUARY, 1791.

| At | 3. | P. M. | | | | |
|-------|--------------------------------|---------------------------|---|--------|--------|---|
| Days. | Deg. Fahrenheit's Thermometer. | Winds. | Perpendi- rise and fall of the Ohio per 24 hours. | Rises. | Falls. | REMARKS. |
| 1 | 26° | W. S. W. | In. In. | | | Clear and pleasant. |
| 2 | 41 | S. S. W. $\frac{1}{2}$ S. | | | | Do. do. |
| 3 | 44 $\frac{1}{2}$ | S. S. E. | | | | Overcast. Some drops of rain, last night. |
| 4 | 47 | W. N. W. | | | | Gentle rain. Some, last night. Morning foggy. |
| 5 | 44 $\frac{1}{2}$ | Calm. | | | | Foggy with some rain. |
| 6 | 56 $\frac{1}{2}$ | W. | | | | Overcast. Rain last night. Ice in Ohio disappeared, except on the shores. <i>Mercury highest.</i> |
| 7 | 40 $\frac{1}{2}$ | W. | | 4 | | Cloudy and windy. Pretty high wind last night. At 9. A. M. (the wind then west came round by noon to the northward) the mercury stood at 56°. |
| 8 | 32 | E. | | | | Clear and pleasant A. M. Overcast P. M. Smart frost last night. |
| 9 | 36 | N. N. W. | | | | Rainy and windy during the evening. |
| 10 | 35 | N. W. | 48 | | | Much rain, sleet, & hail last night. Cloudy & fun-shine A. M. Overcast P. M. Great accumulation of ice in the river, occasioned by rising water sweeping off the cakes lodg- ed on the shores. |
| 11 | 29 | N. N. W. | 36 | | | Clear and very pleasant. The ice has disappeared. |
| 12 | 39 | S. | 72 | | | Clear and very pleasant. A few dis- solving cakes of ice float down the river. |
| 13 | 51 | W. S. W. | 42 | | | Clear and very pleasant. Now vast cakes of ice in Ohio. |
| 14 | 47 | Calm. | 4 | | | Clear A. M. Overcast P. M. Great bodies of floating ice. |
| 15 | 41 | W. N. W. $\frac{1}{2}$ W. | | 18 | | Cloudy and damp. Heavy rains ear- ly this morning. The ice is dis- appearing. |

THERMOMETRICAL OBSERVATIONS. 341

| | | | | |
|----|------------------|---------------------------|-------|--|
| 16 | 39 $\frac{1}{2}$ | W. N. W. | 3 | Cloudy. Ohio full of small cakes of ice. |
| 17 | 32 $\frac{1}{2}$ | W. N. W. | 36 | Cloudy, with a slight snow. The ice in Ohio gone. |
| 18 | 24 | W. | | Snow morning, and again at noon. |
| 19 | 33 | W. | 48 | Cloudy P. M. Brief winds last night and all day. The Ohio much discoloured. <i>Mercury lowest.</i> |
| 20 | 45 | S. to W. | | Tolerably clear. Windy. |
| 21 | 47 | S. | 18 | Clear and very pleasant. |
| 22 | 36 | S. | 6 | Clear, serene and uncommonly pleasant. The thermometer rose in the evening to 52°. Warm night. |
| 23 | 51 $\frac{1}{2}$ | S. S. W. $\frac{1}{2}$ S. | 18 | Clear and serene as yesterday. |
| 24 | 51 | S. to S. W. | 12 | Do do. |
| 25 | 50 | W. | | Overcast A. M. Sun-shine at noon. |
| 26 | 52 | W. | 24 | Overcast P. M. |
| 27 | 39 $\frac{1}{2}$ | W. S. W. | 18 | Black flying clouds, with some rain A. M. Sun-shine P. M. High winds and heavy rains at night. |
| 28 | 32 $\frac{1}{2}$ | W. N. W. | 6 | Clear and serene A. M. Pleasant but cloudy P. M. Some frost last night. |
| 29 | 46 $\frac{3}{4}$ | W. | | Cloudy and raw A. M. Pleasant P. M. |
| 30 | 32 $\frac{3}{4}$ | N. W. { Ohio stand | at a | Trifling snow early A. M. Clear serene and pleasant P. M. |
| 31 | 33 | S. Ri- | sing. | Coudy A. M. Clear P. M. |
| | | | 202 | Clear. High winds last night and all day. |
| | | | 211 | |

| Ex-tremes. | Mean Tem. | Enumeration of winds. | SUMMARY. |
|--------------------------|-----------|---|--|
| 56 $\frac{1}{2}$ 24 } | 40 17. | W. W. S. W. W. N. W. S. S. W. $\frac{1}{2}$ S. N. N. W. N. W. N. N. W. $\frac{1}{2}$ W. S. to W. S. S. E. E. S. to S. W. C. dlm. | 7 times [Prevailing wind.] 3—do. 4—do. 2—do. 2—do. 2—do. 1—do. 1—do. 1—do. 1—do. 2—do. |

FEBRUARY.

FEBRUARY, 1791.

| At 3. | | P. M. | | | REMARKS. | |
|-------|----------------------------------|-----------|-----------------------|---------------|---------------|--|
| Days. | Deg. Fahrenheit. Thermometer. | Winds. | Ohio per 24 hours. | Rises. In. | Falls. In. | |
| 1 | 36 $\frac{1}{2}$ | E. | | | | Overcast. Slight snow A. M. Fair but moist P. M. Slight snow evening and night. |
| 2 | 38 | S. E. | | | | Clear. |
| 3 | 37 | S. S. E. | | | | Clear till 11 A. M. Overcast, with trifling rain and snow till 2 P. M. Overcast again and then rain evening and all night. |
| 4 | 52 $\frac{1}{2}$ | E. | | | | Overcast. Cloudy and rainy A. M. Ditto with rain P. M. Rain evening and night. |
| 5 | 55 | Calm. | | | | Overcast. Moist atmosphere. |
| 6 | 59 $\frac{1}{2}$ | E. | | | | Nearly calm. Foggy morning. |
| | | | | | | Overcast P. M. Rain at 2 P. M. |
| | | | | | | <i>Mercury highest.</i> |
| 7 | 58 | E. | | | | Nearly calm. Thick fog on Ohio. Rainy all day and night. |
| 8 | 45 | E. N. E. | 36 | | | Small rains and part of night. |
| 9 | 32 $\frac{1}{2}$ | W. | 120 | | | Some slight snows. Icicles this morning. |
| 10 | 28 | W. N. W. | 96 | | | Some snow A. M. Cloudy with sun-shine P. M. Ohio much discoloured, and great quantities of drift wood now descending. Hard frost last night. |
| 11 | 38 $\frac{1}{4}$ | S. | 36 | | | Clear. Smart frost last night and early this morning. |
| 12 | 45 | Calm. | 36 | | | Clear and pleasant. |
| 13 | 54 | W. S. W. | 24 | | | Serene and pleasant. |
| 14 | 54 | W. | | | | Serene and pleasant. River begins to fall. |
| 15 | 49 $\frac{1}{4}$ | variable. | | | | Cloudy. Some drops of rain. A strong wind commenced P. M. and blew hard all the evening. |
| 16 | 22 | W. N. W. | | | | Cloudy A. M. Clear P. M. Windy. Some snow. |

THERMOMETRICAL OBSERVATIONS. 343

| | | | | |
|----|-----------------|---------------------------|-----|---|
| 17 | $20\frac{1}{2}$ | N. E. to W. | | Serene and pleasant. Hard frost last night. <i>Mercury lowgß.</i> |
| 18 | $23\frac{1}{2}$ | E. | | Steady snow of small flakes all day, which began early this morning. It fell nearly 11 inches thick, the deepest snow known here. |
| 19 | 30 | N. | | Fair—but overcast and cloudy. |
| 20 | 36 | S. S. W. | | Serene and pleasant. |
| 21 | 42 | W. N. W. $\frac{1}{4}$ W. | | Serene and pleasant. Dry and frosty with very light airs. |
| 22 | 37 | Westerly. | | Sun-shine A. M. Overcast and moist P. M. Very light airs and a thaw all day. At even. snow and sleet. |
| 23 | 44 | W. | | Clear. Thaw continues. Floating ice in Ohio. |
| 24 | 50 | W. | | Nearly calm. Clear A. M. Overcast P. M. |
| 25 | $56\frac{1}{4}$ | E. to N. N. E. | | Clouds and sun-shine alternately. |
| 26 | 48 | W. | | Clear with light airs. High winds early A. M. |
| 27 | 59 | S. | 36 | Sun-shine A. M. Cloudy P. M. with thunder. Lightning at night. Showery all day. |
| 28 | 37 | N. N. W. | 72 | Sun-shine and clouds. Gusts of wind with showers last night and to-day. |
| | | | 456 | |

| Ex-tremes. | Mean Tem. | Enumeration of winds. | SUMMARY. | |
|--|-----------------|---|--|---|
| $59\frac{1}{2}\}$ $20\frac{1}{2}\}$ | $42\frac{1}{2}$ | W. W. N. W. W. S. W. W. N. W. $\frac{1}{4}$ W. N. N. W. E. E. to N. N. E. E. N. E. S. E. S. S. E. S. S. W. S. N. E. N. Variable. Calm. | 6 times [Prevailing wind.] 2—do. 1—do. 1—do. 1—do. 1—do. 5—do. 1—do. 1—do. 1—do. 1—do. 2—do. 1—do. 1—do. 1—do. 1—do. 2—do. | Wholly clear—10 days. Partly do. — 8 do. |

MARCH.

MARCH, 1791.

| At Days. | 3. Deg. Fahren. Thermometer. | P. Winds. | M. Ohio per 24 hours. | Rises. In. | Falls. In. | REMARKS. |
|-------------|------------------------------------|---------------|-----------------------------|---------------|---------------|---|
| 1 | 39° | W. | 84 | | | Clear. Brisk wind last night. |
| 2 | 58 | W. | 84 | | | Clear and pleasant. Brisk wind A. M. and again at evening. |
| 3 | 58½ | W. | 60 | | | Clear and pleasant. |
| 4 | 65½ | Calm. | 15 | | | Serene A. M. Cloudy P. M. |
| 5 | 68½ | S. S. E. ¼ E. | | 5 | | Cloudy P. M. at 8 P. M. rain. Showery all night, with some thunder and pretty high wind. Very warm all night. |
| 6 | 67 | W. S. W. ¼ W. | 24 | | | Clear and pleasant. |
| 7 | 56 | W. N. W. | 3 | | | Cloudy and some fleet A. M. Clear and pleasant P. M. Brisk wind. |
| 8 | 46 | S. S. E. ¼ S. | 84 | | | Clear and serene. |
| 9 | 46½ | W. S. W. ¼ W. | | | | Very rainy from 8 A. M. |
| 10 | 52 | S. S. E. ¼ S. | 24 | | | Very rainy A. M. |
| 11 | 58½ | W. | 84 | | | Clear, with some clouds A. M. |
| 12 | 56 | Calm. | 12 | | | Clear and cloudy alternately. |
| 13 | 60 | Calm. | 48 | | | Cloudy with some sun-shine. |
| 14 | 56 | N. E. by N. | 6 | | | Rainy from half past 11 A. M. Foggy morning. |
| 15 | 73½ | S. | 2 | | | Cloudy and clear alternately. High winds and rain last night. Brisk wind all day. |
| 16 | 80 | S. | Stands. | | | Cloudy in general A. M. Clear with some clouds P. M. Thunder at 2 at noon, and again at evening with lightning. <i>Mercury highest.</i> |
| 17 | 68 | S. E. | 18 | | | Cloudy. Heavy rains last night and this morning. Rainy P. M. |
| 18 | 46 | N. W. | 36 | | | Cloudy. Heavy rains and high winds last night and this morning. |
| 19 | 38 | N. W. | 12 | | | Cloudy in general. Brisk winds and a little snow A. M. Two lines thick of ice made last night. <i>Mercury lowest</i> [a difference of 42° in 4 days.] |

THERMOMETRICAL OBSERVATIONS.

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| | | | | | |
|----|------------------|---------------------------|-----|-----|--|
| 20 | 48 $\frac{1}{2}$ | S. | | 24 | Serene and pleasant. |
| 21 | 69 | W. | | 24 | Clear, pleasant, but windy. Peach trees in bloom, and the woods covered with various flowers. The Buck-eye tree now in full foliage. |
| 22 | 70 | W. | | 3 | Serene and pleasant. |
| 23 | 75 | S. | | 5 | Clear and pleasant, but windy. |
| 24 | 76 | W. | | 3 | Clouds and sun-shine. High winds. |
| 25 | 69 | E. N. E. $\frac{1}{4}$ E. | | 24 | Clear and pleasant. |
| 26 | 70 | S. E. | | 60 | Clear A. M. Cloudy P. M. |
| 27 | 68 $\frac{1}{4}$ | S. E. | | 24 | Cloudy. Some rain P. M. |
| 28 | 52 $\frac{1}{2}$ | E. | | | Cloudy and rainy A. M. Damp atmosphere. |
| 29 | 60 | S. E. | | | Serene and pleasant. |
| 30 | 63 | E. S. E. | | 24 | Serene and pleasant. |
| 31 | 62 | Variable. | | | Serene and pleasant. |
| | | | 478 | 312 | |

SUMMARY.

| Ex-tremes | Mean Tem. | Enum. of winds | |
|---------------|------------------|--|---|
| 80° } 38 } | 60 $\frac{1}{2}$ | W. N. W. S. E. S. Westerly. Southerly Easterly. E Northerly Calm, &c. | 6 times [Prevailing wind.] 2—do. 4—do. 4—do. 4—do. 3—do. 2—do. 1—do. 1—do. 4—do. |
| | | | Wholly clear—13 days. Partly do. — 8 do. |

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APRIL.

APRIL, 1791.

| At 3. P. M. | | | REMARKS. |
|-------------|---------------------|---------------------------|--|
| Days. | Deg. Fah. Therm. | Winds. | |
| 1 | 56° | S. E. | Cloudy with some rain. |
| 2 | 46 | N. N. E. | Clear. <i>Mercury loweſt.</i> |
| 3 | 50 | W. | Serene and pleasant. Smart frost, some ice and wind last night. |
| 4 | 56 | N. W. | Serene and pleasant. Smart frost last night. |
| 5 | 64 | Variab. | Ditto. ditto. Slight frost last night. |
| 6 | 58 | E. N. E. | Rainy A. M. Overcast P. M. Between 8 & 9 P. M. shock of an earthquake, 2 minutes. |
| 7 | 64 | N. E. | Clear. |
| 8 | 66 | Calm. | Serene and pleasant. |
| 9 | 80 | Calm. | Ditto. ditto. <i>Greateſt heat.</i> |
| 10 | 76 | S. S. E. } Variable. } | Ditto. ditto. |
| 11 | 70 | Calm. | Cloudy in part A. M. Rain P. M. |
| 12 | 69 | S. W. | Clear and calm A. M. Cloudy P. M. a short but violent gust of wind, attended with rain, thunder and lightning. |
| 13 | 74 | W. S. W. | Cloudy and sun-shine alternately. High winds all day, with thunder and lightning towards noon. Showery but pretty rainy at night. Last night heavy rains. |
| 14 | 60 | WNW $\frac{1}{4}$ W | Showery all day, and some smart rains last night. |
| | | | ☞ Here end my obſervations at Fort Washington. The ſucceeding month and part of June were remarkably wet and warm; the mercury frequently riſing ſome degrees above 80°. Some of the showers were like tumbling torrents of water, and were now and then accompanied with thunder and lightning. G. TURNER. |

SUMMARY.

SUMMARY.

| Ex-tremes. | Mean Tem. | Enum. of winds. | |
|---|-----------|--------------------|---|
| 80° } 46 } | 50° 9' | Westerly. | Most prevailing wind so far. Wholly clear—8 days. Partly do. —2 do. |
| Note. That of the foregoing 317 days, 153 were wholly clear, and 55 partly so, and that Westerly and South-westerly are the prevailing winds. | | | |

RECAPITULATION OF FINE WEATHER.

| Number of Days. | Months. | Days wholly clear. | Days partly clear. |
|--------------------|------------|--------------------------|--------------------------|
| 30 | June. | 13 | 6 |
| 31 | July. | 20 | 5 |
| 31 | August. | 20 | 1 |
| 30 | September. | 22 | 0 |
| 30 | October. | 12 | 8 |
| 30 | November. | 10 | 4 |
| 31 | December. | 13 | 7 |
| 31 | January. | 12 | 6 |
| 28 | February. | 10 | 8 |
| 31 | March. | 13 | 8 |
| 14 | April | 8 | 2 |
| 317 | Total. | 153 | 55 |

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Calculation